

Practice

For use with pages 242–246

State the reciprocal of the number.

1. $-\frac{24}{7}$

2. -264

3. 3.45

4. 0.01

Find the quotient.

5. $\frac{7}{20} \div \frac{5}{6}$

6. $-\frac{11}{24} \div \frac{7}{10}$

7. $\frac{8}{33} \div \left(-\frac{8}{9}\right)$

8. $-\frac{7}{5} \div \frac{19}{40}$

9. $8\frac{9}{20} \div 1\frac{7}{40}$

10. $10\frac{9}{14} \div \left(-3\frac{1}{2}\right)$

11. $\frac{16}{25} \div 2$

12. $48 \div \left(-\frac{4}{5}\right)$

13. $12\frac{3}{4} \div \left(-\frac{11}{12}\right)$

14. $5\frac{7}{11} \div 20$

15. $-24\frac{4}{9} \div \frac{8}{15}$

16. $-\frac{10}{33} \div 12$

17. $-\frac{18}{35} \div \left(-2\frac{4}{5}\right)$

18. $30 \div \left(-4\frac{1}{8}\right)$

19. $8\frac{7}{10} \div \frac{33}{50}$

20. $-\frac{15}{26} \div \left(-\frac{5}{14}\right)$

Evaluate the expression when $x = -2\frac{5}{8}$, $y = \frac{3}{10}$, and $z = 6\frac{3}{4}$.

21. $x \div y$

22. $y \div z$

23. $x \div z$

24. $z \div x \cdot y$

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Evaluate the expression.

25. $\frac{4}{9} \div \frac{1}{3} + \frac{7}{10}$

26. $\frac{5}{8} + \frac{5}{12} \div \frac{10}{21}$

27. $-\frac{3}{16} \div \left(\frac{3}{4} + \frac{5}{6}\right)$

28. $\frac{23}{41} \div \frac{25}{82} - \frac{3}{10}$

29. $6\frac{7}{8} \div 1\frac{5}{6} + \frac{11}{20}$

30. $\frac{6}{13} \div \frac{3}{5} \cdot \frac{3}{4}$

31. $-\frac{5}{6} \cdot \left(-\frac{9}{10}\right) \div \frac{17}{20}$

32. $\frac{7}{18} \cdot \left(-\frac{10}{21}\right) \div \frac{11}{9}$

33. $\frac{7}{24} \div \left(\frac{11}{12} - \frac{5}{9}\right)$

34. Evaluate the expression $x^2 \div y$ when $x = -\frac{5}{9}$ and $y = -10$.

35. Evaluate the expression $x^2 \div y^2$ when $x = \frac{7}{12}$ and $y = -\frac{7}{18}$.

36. You have a piece of wood that is $23\frac{3}{8}$ feet long. You need to cut pieces that are $1\frac{3}{8}$ feet long. How many pieces can you cut?